

Magellan™ MOBILE ROBOT TECH SHEET

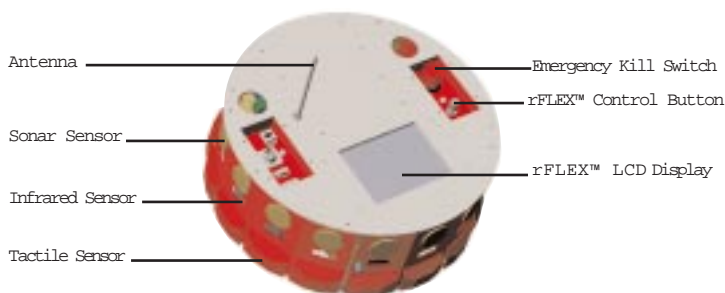
Meet the new star in RWI's family: versatile, agile Magellan™. The ideal platform for demanding robotics research and applications, Magellan™ sets new standards in premium quality, cost-effectiveness, compact size, ruggedness and portability. Magellan™ lets you explore thrilling new worlds, taking your robotics research projects and applications into areas never before possible.

Only 7 inches tall, Magellan™ is the first truly portable high-performance robot. Its extraordinarily dense complement of 48 sensors offers superior 360-degree views of its environment. In addition to its intelligently placed radial arrays of 16 sonar and 16 IR sensors, Magellan™ carries 16 tactile sensors located around the robot's lower perimeter, right where they're needed.

Contact RWI sales at sales@rwii.com or call 603-532-6900 to configure a Magellan™ or fleet of Magellans to best fit your needs.

MAGELLAN™ MOBILE ROBOT SPECIFICATIONS

Sonar:	16
IR:	16
Tactiles:	16
CPU's:	Optional Mini-Computer System
Communications:	Optional Wireless RS-232 or Ethernet
Batteries:	2 12V, 12A/hr
Run Time:	8 to 10+ Hours, Without Accessories
Tires:	2 Hard Rubber, 11.4cm 4.4" Dia.
Motor:	2 24V DC Servo Motors
Motion Control:	RWI's rFLEX™ Control Architecture
Drive:	2-Wheel
Steering:	Differential
Turn Radius:	Zero (turns on center)
Translate Speed:	2.5m/s 8.2'/s
Rotate Speed:	270°/s
I/O Ports:	Joystick, RS-232, FARNET
Diameter:	36.8cm 14.5"
Height:	19.8cm 7.8"
Weight:	13.2kg 29lbs (with batteries installed)
Payload:	9.1kg 20lbs
Body:	Aluminum
Color:	RWI Red or Special
Safety:	One Emergency Kill Button
Software:	Mobility™ Robot Integration Software
Warranty:	One Year Parts and Labor



RWI's rFLEX™ CONTROL SYSTEM

Built around RWI's revolutionary new rFLEX™ robot control architecture, your Magellan™ guarantees you time-synchronized sensor and encoder readings and provides unprecedented flexibility and responsiveness in robot control. With its FARNET™ logical ring architecture; simple hub-and-node configuration; use of standardized, easily-available components and low network latency, rFLEX™ offers you an unprecedented degree of flexibility, speed and power in the development and modification of robot research projects and applications.

RWI's MOBILITY™ ROBOT INTEGRATION SOFTWARE

With RWI's Mobility™ robot integration software, there's never a need to scrap or rewrite your robot applications as your research evolves or as you acquire new hardware and new robot platforms. With Mobility's unprecedented level of code re-use, and RWI's dedication to providing full top-to-bottom integration in the robotics software development environment, you'll finally be able to concentrate on your projects and your research, rather than constantly re-writing application code and porting programs to work on new robots.

ACCESSORIES FOR MAGELLAN™

- Pentium and Pentium II Mini-Computer System
- 1 to 3Mbps Wireless Ethernet Radios
- 56.7kbps Wireless RS-232 Modems
- Small Stereo Vision System
- Wireless Video System
- Cognachrome Vision System
- Camera and Frame Grabber Options
- Laser Scanner
- Computerized Navigation Compass
- ASCII to Speech Interfaces
- Rugged Reusable Shipping Case

REAL WORLD INTERFACE

Robots for the Real World

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